

SONY®

Multi Access Video and Audio Server **MAV-2000 Series**

The MAV-2000 Multi-access Video Server and the MAV-S2000 Hard Disk Drive Array Unit are designed for the efficient storage of video and audio material, and can be used in a network environment or standalone. They build on the strengths of the earlier MAV-1000 Series that continue to be in day-to-day use in broadcast news operations worldwide. The following major features are enhancements made possible by utilizing the latest technology:

- Editing accuracy with fast response time
- Superb MPEG-2 picture quality
- Configuration flexibility
- Interfacing within a computer network environment
- Support for the challenges of moving to DTV systems

The MAV-2000/S2000, which adopts the common platform of the Sony MPEG IMX™ concept, accepts a variety of application software that includes the existing software for the MAV-1000 Series. This server/disk drive combination has applications in post-production and commercial library applications as well as server-based news operations.



Preliminary



Features

High-accuracy Editing

The MAV-2000 combines frame-accurate, fast-response editing with the superb picture quality of MPEG-2 4:2:2P@ML. Data rates of 30 Mb/s, 40 Mb/s, or 50 Mb/s can be handled.

Flexible System Configuration

In combination with MAV-S2000 disk array unit, the MAV-2000 can build up a flexible system configuration to provide over 100 hours of audio/video storage

- up to 12 simultaneous inputs and outputs
- synchronous I/F or asynchronous I/F A/V file transfer
- equipped with Ethernet, VS-BUS, and RS-422A as standard

Fast and Flexible Editing

- uses G-Shuttle - a new innovative technology from Sony that makes it possible to find the location of editing points at shuttle speeds similar to those of a VTR
- high-speed response
- eight audio channels with independent split and cross fade
- 525/625 switchable

- VITC (Vertical Interval Time Code), TC (Time Code), and event code for CM bank available

Large Storage Capacity, over 500 hours storage

The MAV-S2000 provides an A/V storage capacity of over 100 hours, when recording at 30 Mb/s with 8 RAID units equipped with 18-GB HDDs

Powerful RAID Function

- reliable file protection
- rebuilds, including variable and continuous operational on-line rebuild, off-line rebuild, and auto partial rebuild in the event of a fault in recording
- dual parities by adopting modified RAID-6

Fault Tolerance

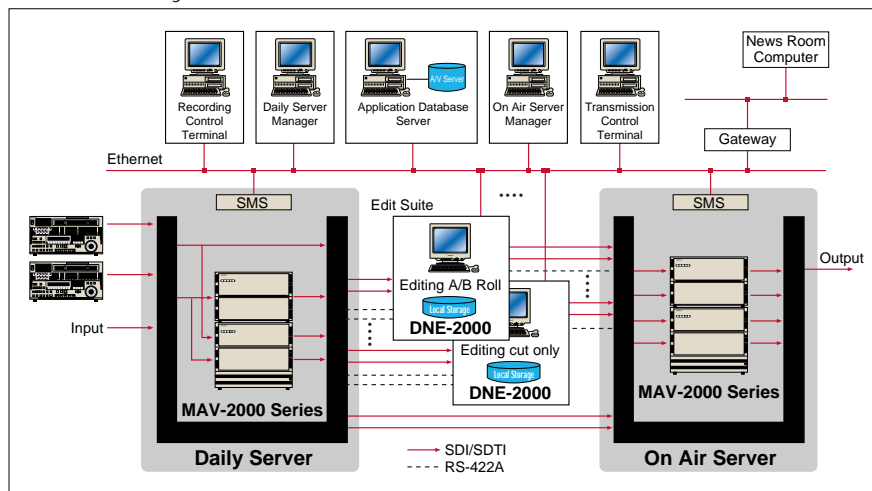
Allows continuous operation and maintenance during operation, even in the event of a fault in HDDs, power supply units, ventilation fans, and function boards. This is achieved by adopting:

- modified RAID-6
- redundant power supply
- hot-swappable HDDs
- dual file management system, or backup function in combination with MAV-S2000
- remote maintenance through network in connection to Ethernet

Video Playback Process Control

Adjustment of Video Level, Audio Level, Y Level, Chroma Level, Black Level, Chroma Phase, Line Blanking, and System Phase is provided

NewsBase™ System



Support Components

- BKMA-2010 Input and output processing board
- BKMA-2010HD HDCAM interface board
- BKMA-2040 SDTI board
- BKMA-2050 Asynchronous Network board

Specifications

General	
MAV-2000	
Power requirement	AC 100 to 240 V +/- 10%, 50/60 Hz
Power consumption	Max 800 W
Operating temperature	+5 °C to +40 °C (+41 °F to +104 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating humidity	20% to 90% (no humidity condensation)
Mass	Approx. 41 kg (90 lb 6 oz) (with no option boards installed)
Dimensions	424 x 355 x 650 mm (w/h/d) (16 3/4 x 14 x 25 5/8 inches)
MAV-S2000	
Power requirement	AC 100 to 240 V +/- 10%, 50/60 Hz
Power consumption	Max 600 W
Operating temperature	+5 °C to +40 °C (+41 °F to +104 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating humidity	20% to 90%
Mass	Approx. 55 kg (121 lb 4 oz)
Dimensions	424 x 265.6 x 638 mm (w/h/d) (16 3/4 x 10 1/2 x 25 5/8 inches)

Inputs/Outputs	
Serial bus extension input	BNC type (8) 270 Mb/s, 75 Ω
Serial bus extension output	BNC type (8) 270 Mb/s, 75 Ω
Reference video input (Analog)	BNC type (1 input, 1 loop-through output) Black burst signal, 0.3 Vp-p, 75 Ω, or Composite video signal, 1 Vp-p, 75 Ω, With 75 Ω termination switch
Time code input	BNC type (1) 0.5 to 18.0 Vp-p, 10 KΩ, unbalanced
VS-Bus	BNC type (1) 1.3 ±0.3 V, 75 Ω (internally terminated)
Ethernet	RJ-45 modular jacks (2) 10Base-T Conforms to Ethernet IEEE 802.3 Balanced input
Status output (parallel)	D-sub 9-pin, female (1)

With one unit of BKMA-2010 installed

SDI input	BNC type (1) x 2 ports SMPTE 259M/ITU-R656 (270 Mb/s)
AES/EBU digital audio inputs	BNC type (4) x 2 ports AES-3id-1995
SDI output	BNC type (1) x 2 ports SMPTE 259M/ITU-R656 (270 Mb/s)
AES/EBU digital audio outputs	BNC type (4) x 2 ports AES-3id-1995
Remote	RS-422A, D-sub 9-pin, female (1) x 2 ports

Supplied accessories

Operation manual (1)
Installation manual (1)
Setup disks (for Windows NT, English version) (2)
Setup disks (for Windows NT, Japanese version) (2)

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